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L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1

STR

Structure attributes must be viewed using STN Express query preparation.

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

3441 ANSWERS

FULL SEARCH INITIATED 10:46:19 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 257143 TO ITERATE

100.0% PROCESSED 257143 ITERATIONS

SEARCH TIME: 00.00.05

3441 SEA SSS FUL L1 L2

1670 L2 L3

=> s 13 and py<1998 18308388 PY<1998

397 L3 AND PY<1998 L4

=> s 14 and aspart?

121982 ASPART?

29 L4 AND ASPART?

=> d 1-29 ibib abs hitstr

ANSWER 1 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:1501 CAPLUS

DOCUMENT NUMBER: 128:60717

TITLE: Peptides and other pharmacophores of group B

meningococcal capsular polysaccharide for vaccine use INVENTOR(S): Laing, Peter; Darsley, Michael; Tighe, Patrick Jason

PATENT ASSIGNEE(S): Peptide Therapeutics Limited, UK; Laing, Peter;

Darsley, Michael; Tighe, Patrick Jason

PCT Int. Appl., 135 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PA	CENT	NO.			KIN	D	DATE		į	APPL:	ICAT	ION I	NO.		D	ATE	
	WO 9746582				A1 19971211			WO 1997-GB1518				19970605 <						
		W:	ΑL,	AM,	ΑT,	ΑU,	ΑZ,	ΒA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
			DK,	EE,	ES,	FI,	GB,	GE,	HU,	IL,	IS,	JP,	ΚE,	KG,	KP,	KR,	KZ,	LC,
			LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	ΝZ,	PL,	PT,
			RO,	RU,	SD,	SE,	SG,	SI,	SK,	ТJ,	TM,	TR,	TT,	UA,	ŪG,	US,	UZ,	VN,
			AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM							
		RW:	GH,	ΚE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,
			GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,
			ML,	MR,	NE,	SN,	TD,	TG										
	AU	9730	386			A 1		1998	0105		AU 1:	997-	3038	6		1	9970	605
PRIO	RIT	APP	LN.	INFO	. :						GB 1	996-	1167	3		A 1	9960	605
										1	WO 1	997-	GB15	18	1	W 1	9970	605
			_		_						_						_	

AΒ The authors disclose an anti-meningococcal vaccine, particularly for group-B serotype meningococcus. The invention provides antigenic peptide ligands which can act as an immunogen capable of eliciting an immune

response to produce antibodies against the capsular polysaccharide of group-B meningococci (CPS-B). The immunogen may be in the form of a polypeptide or in the form of a conjugate coupled to a carrier mol. The invention also provides antibodies for use in treatment and/or prophylaxis.

IT 200424-85-7

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)

(of peptides mimetic for group B meningococcal capsular polysaccharide in relation to vaccine use)

RN 200424-85-7 CAPLUS

CN L-Aspartic acid, L-phenylalanyl-L-α-aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L5 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:661627 CAPLUS

DOCUMENT NUMBER: 125:321399

TITLE: Substrate specificities of pepstatin-insensitive carboxyl proteinases from Gram-negative bacteria

AUTHOR(S): Ito, Masaaki; Dunn, Ben M.; Oda, Kohei

CORPORATE SOURCE: Dep. Applied Biology, Kyoto Inst. Technology, Kyoto,

606, Japan

SOURCE: Journal of Biochemistry (Tokyo) (1996),

120(4), 845-850

CODEN: JOBIAO; ISSN: 0021-924X Japanese Biochemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

PUBLISHER:

Pseudomonas carboxyl proteinase (PCP), isolated from Pseudomonas sp. 101, and Xanthomonas carboxyl proteinase (XCP), isolated from Xanthomonas sp. T-22, are the first and second examples of unique carboxyl proteinases [EC 3.4.23.33] which are insensitive to aspartic proteinase inhibitors, such as pepstatin, diazoacetyl-DL-norleucine methylester, and 1,2-epoxy-3(p-nitrophenoxy)propane. The substrate specificities of PCP and XCP were studied using a series of synthetic chromogenic peptide substrates with the general structure, P5-P4-P3-P2-Phe-Nph-P2'-P3' (P5, P4, P3, P2, P2', P3': a variety of amino acids, Nph is p-nitro-L-phenylalanine, and the Phe-Nph bond is cleaved). PCP and XCP were shown to hydrolyze a synthetic substrate, Lys-Pro-Ala-Leu-Phe-Nph-Arg-Leu, most effectively among 28 substrates. The kinetic parameters of this peptide for PCP were Km = $6.3 \mu M$, kcat = 51.4 s-1, and kcat/Km = 8.16 $\mu M-1 \cdot s-1$. The kinetic parameters for XCP were Km = 3.6 μM , kcat = 52.2 s-1, and kcat/Km = 14.5 μ M-1·s-1. PCP showed a stricter substrate specificity than XCP. I.e., the specificity constant (kcat/Km) of each substrate for PCP was in general <0.5 $\mu M-1 \cdot s-1$, but was drastically improved by the replacement of Lys by Leu at the P2 position. XCP showed a less stringent substrate specificity, with most of the peptides exhibiting reasonable kcat/Km

values (>1.0 μ M-1·s-1). Thus it was found that the substrate specificities of PCP and XCP differ considerably in spite of the high similarity in their primary structures. In addition, tyrostatin was found to be a competitive inhibitor for XCP, with a Ki value of 2.1 nM, as well as for PCP (Ki = 2.6 nM).

IT 142234-15-9

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)

(substrate specificities of pepstatin-insensitive carboxyl proteinases from Gram-neg. bacteria)

RN 142234-15-9 CAPLUS

CN L-Leucine, L-lysyl-L-prolyl-L-alanyl-L-lysyl-L-phenylalanyl-4-nitro-L-phenylalanyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

L5 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1996:484826 CAPLUS

DOCUMENT NUMBER:

125:189112

TITLE:

AUTHOR(S):

Catalytic specificity of phosphotyrosine kinases Blk,

Lyn, c-Src and Syk as assessed by phage display

Schmitz, Rita; Baumann, Goetz; Gram, Hermann

CORPORATE SOURCE:

Preclinical Res., Sandoz Pharma Ltd., Basel, CH-4002,

Switz.

SOURCE:

Journal of Molecular Biology (1996), 260(5),

664-677

CODEN: JMOBAK; ISSN: 0022-2836

PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:

Academic Journal English

Protein tyrosine kinases (PTKs) are implicated in cell proliferation, AΒ differentiation, and receptor-mediated signaling events. Recruitment of intracellular PTKs into the signaling complex, often localized at the inner surface of the cell membrane, involves SH2 and SH3 domains attached to the catalytic kinase domain. While the interaction of SH2 and SH3 domains with their target sequences is well documented in a number of cases, the contribution of the catalytic domain itself in conferring specificity to a given signal cascade is not fully understood. We addressed this question and employed the phage display technique to assess the substrate requirements for the highly related Src-like PTKs c-Src, Blk, Lyn and the distantly related Syk. A diverse peptide library on phage was established, and after multiple rounds of phosphorylation and selection of phage displaying phosphotyrosine-containing peptides, canonical substrate sequences for each of the PTKs were enriched. The PTKs Blk and Lyn implicated in B cell signaling were found to prefer peptide substrates of the structure I/L-Y-D/E-X-L which resemble critical features of the ITAM motifs found in, e.g. the intracellular components $Iq-\alpha$ and $Ig-\beta$ of the β cell receptor. All Src-like PTKs had a requirement for isoleucine or leucine in the position -1 with respect to the phosphorylated tyrosine residue in position 0. While Blk and Lyn had a strong preference for a neg. charged amino acid in position +1, c-Src preferred tryptophan or glycine in this position. Syk, not belonging to the Src-like PTK family, revealed a distinct substrate requirement for aspartic acid in position -1 and glutamic acid in position +1. In general, all PTKs we have tested had a strong preference for a particular amino acid in the positions -1 and +1 adjacent to the tyrosine residue.

IT 180780-84-1P 180782-31-4P

RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); PROC (Process)

(catalytic specificity of protein phosphotyrosine kinases Blk, Lyn, c-Src and Syk as assessed by a phage-displayed peptide combinatorial library)

RN 180780-84-1 CAPLUS

CN L-Alanine, N-[N-[N-[N-[N-[N-[N-[1-(N-L- α -glutamyl-L-alanyl)-L-phenylalanyl]-L-tryptophyl]-L-threonyl]-L-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

PAGE 1-B

─co₂H

RN 180782-31-4 CAPLUS

CN L-Alanine, N-[N-[N-[N-[N-[N-[N-[N-L- α -glutamyl-L- α -glutamyl)-L-phenylalanyl]-L-isoleucyl]-L-tyrosyl]-L-tryptophyl]-L-seryl]-L-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 4 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:314488 CAPLUS

DOCUMENT NUMBER:

125:7812

TITLE:

Studies of tum- peptide analogs define an alternative

anchor that can be utilized by Ld ligands lacking the

consensus P2 anchor

AUTHOR(S):

Robinson, Ruth A.; Lee, David R.

CORPORATE SOURCE:

Dep. Mol. Microbiol. Immunol., Univ. Missouri,

Columbia, MO, 65212, USA

SOURCE:

Journal of Immunology (1996), 156(11),

4266-4273

CODEN: JOIMA3; ISSN: 0022-1767

PUBLISHER:

American Association of Immunologists

DOCUMENT TYPE: Jo LANGUAGE: Ex

Journal English

To determine how peptides that lack a consensus binding motif interact with class I mols., the authors studied the binding of the tumor-associated tum-P91A 14-22 (tum-) peptide to Ld. Previously, a proline at position 2 (P2) and a hydrophobic residue at P9 had been defined as anchors for Ld ligands. However, the tum- peptide lacks the P2 proline anchor. To compare how peptides with and without the P2 proline anchor bind to Ld, the authors analyzed the binding of monosubstituted analogs of the murine cytomegalovirus (MCMV) pp89 168-176 and the tum- peptides to Ld. As expected, the binding of both peptides was inhibited by substitutions at P9, the C-terminal anchor. As also predicted, the MCMV peptide was dependent upon its P2 proline for binding to Ld. By contrast, the binding

of the tum- peptide to Ld is dependent primarily on a P8 aspartate residue. Interestingly, the p2Ca peptide that is immunodominant in allorecognition of Ld also lacks the P2 proline anchor and has been shown to depend on residues near the C terminus for binding to Ld. Furthermore, both the p2Ca and the tum- peptides can bind to Ld as octamers. These combined studies suggest that there are at least two alternative manners by which peptides can bind to Ld. Although most Ld ligands bind using a P2 proline anchor, the tum- and p2Ca peptides bind using alternative anchors in the C-terminal region.

IT 142606-55-1

RL: PRP (Properties)

(alternative anchors that can be utilized by Ld ligands lacking consensus proline anchor)

RN 142606-55-1 CAPLUS

CN L-Leucine, L-leucyl-L-seryl-L-prolyl-L-phenylalanyl-L-prolyl-Lphenylalanyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 5 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:71594 CAPLUS

DOCUMENT NUMBER: 124:261751

TITLE: Preparation of amidinophenylacylpeptide derivatives

useful as platelet aggregation inhibitors.

INVENTOR(S): Garland, Robert B.; Miyano, Masateru; Zablocki,

Jeffery A.; Schretzman, Lori A.

PATENT ASSIGNEE(S): G. D. Searle and Co., USA

SOURCE:

U.S., 24 pp. Cont.-in-part of U.S. Ser. No. 665,119,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5481021	Α	19960102	US 1994-90127	19941222 <
WO 9215607	A2	19920917	WO 1992-US1531	19920305 <

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WO 9215607
                          А3
                                 19921029
             AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP,
             KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US
         RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN,
             GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG
     AU 9216666
                                 19921006
                                             AU 1992-16666
                                                                     19920305 <--
                          A1
     AU 662142
                          В2
                                 19950824
     EP 574545
                          A1
                                 19931222
                                             EP 1992-909278
                                                                     19920305 <--
     EP 574545
                          B1
                                 19941130
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
                                 19940623
                                             JP 1992-508751
     JP 06505497
                          T2
                                                                     19920305 <--
     JP 3258659
                          B2
                                 20020218
PRIORITY APPLN. INFO.:
                                             US 1991-665119
                                                                  B2 19910306
                                             WO 1992-US1531
                                                                  W 19920305
OTHER SOURCE(S):
                         MARPAT 124:261751
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$$R^3$$
 R^4
 $YCONH$
 R^2
 CO_2W
 R^2
 $CCH_2) mR^1$

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AB Title compds. [I; R1 = (substituted) Ph, alkyl, heteroaryl, CO2H; R2 = H, alkyl, (substituted) Ph, phenylalkyl; R3, R4 = H, alkyl, OH, alkoxy, halo; W = H, alkyl; Y = (substituted) alkyl, alkenyl, alkynyl, alkylcarbonylaminoalkyl; Z = H, CO2H, alkylcarboxyl; m = 0-4], were prepared Thus, title compound (II), prepared by solution phase methods, at 0.006 mg/kg in

Ι

II

dogs gave 84% inhibition of collagen-induced platelet aggregation.

IT 175071-93-9P

GΙ

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of amidinophenylacylpeptide derivs. useful as platelet aggregation inhibitors)

RN 175071-93-9 CAPLUS

CN L-Phenylalanine, N-[N-[3-[6-(aminoiminomethyl)-2-naphthalenyl]-1-oxopropyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

$$H_2N$$
 H_2N
 H_3N
 H_4N
 H_5
 CO_2H
 CO_2H
 CO_2H
 H_5
 Ph

L5 ANSWER 6 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:936281 CAPLUS

DOCUMENT NUMBER: 124:24530

TITLE: Comparison of the active site specificity of the

aspartic proteinases based on a systematic

series of peptide substrates

AUTHOR(S): Dunn, Ben M.; Scarborough, Paula E.; Lowther, W. Todd;

Rao-Naik, Chetana

CORPORATE SOURCE: College Medicine, University Florida, Gainesville, FL,

32610-0245, USA

SOURCE: Advances in Experimental Medicine and Biology (

1995), 362(Aspartic Proteinases), 1-9, 2

plates

CODEN: AEMBAP; ISSN: 0065-2598

PUBLISHER: Plenum
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A comparison of the active site specificity of the **aspartic** proteinases based on a systematic series of peptide substrates is

presented.

IT 142234-15-9

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP

(Properties); BIOL (Biological study); PROC (Process)

(comparison of the active site specificity of the **aspartic** proteinases based on a systematic series of peptide substrates)

RN 142234-15-9 CAPLUS

CN L-Leucine, L-lysyl-L-prolyl-L-alanyl-L-lysyl-L-phenylalanyl-4-nitro-L-phenylalanyl-L-α-aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L5 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:842306 CAPLUS

DOCUMENT NUMBER: 123:309749

TITLE: Detection of bioactive oligopeptides after microbore

HPLC with electrochemical detection of their Cu(II)

complexes: effect of operating parameters on

sensitivity and selectivity

AUTHOR(S): Chen, Jian-Ge; Weber, Stephen G.

CORPORATE SOURCE: Dep. Chem., Univ. Pittsburgh, Pittsburgh, PA, 15260,

USA

SOURCE: Analytical Chemistry (1995), 67(19),

3596-604

CODEN: ANCHAM; ISSN: 0003-2700

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

AB We used a microbore reversed phase column for acetonitrile/0.1% aqueous TFA gradient elution separation of peptides with the detection of their copper complexes by electrochem. detection. The copper complexes are formed in a short (1 or 1.5 min) postcolumn reactor following mixing of the eluent with the postcolumn reaction phase. Detection can be at an upstream anode or a downstream cathode of a dual-electrode electrochem. detector. following parameters have been investigated for their effect on the sensitivity and the selectivity of the procedure: postcolumn pH, buffer type, temperature, reaction time, and anode potential. Of the 23 bioactive peptides used, there are several that fall into classes according to their chemical and electrochem. behavior with copper(II): those with a blocked terminal amine, those with aspartate in the third position, those that have an electroactive amino acid, and those that have a cyclic structure formed by the amide backbone through a Cys-Cys disulfide bridge. Depending on these attributes, the operating parameters have an influence on the sensitivity of the determination Uncomplicated peptides with a free

amine

terminus react rapidly in the postcolumn reactor and give signals in the range predicted by theory. There is evidence that longer peptides, and those with a blocked amine terminus, have a sensitivity limited by kinetic factors. The oxidns. of tyrosine and tryptophan in peptides are dramatically influenced by buffer type at pH 9.8. At pH 8.0, there is no signal from several peptides in phosphate buffer, while in borate there is a signal.

IT 102567-19-1

RL: ANT (Analyte); ANST (Analytical study)

(electrochem. detection of bioactive oligopeptides after microbore HPLC by forming copper-peptides complexes)

RN 102567-19-1 CAPLUS

L-Serine, L-arginyl-L-phenylalanyl-L-α-aspartyl- (9CI) (CA INDEX CN

Absolute stereochemistry.

ANSWER 8 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

1995:826253 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 123:237743

Bioreactivity of titanium implant alloys TITLE:

Kerber, Susan J. AUTHOR(S):

Mat. Interface, Inc., Sussex, WI, 53089-2244, USA CORPORATE SOURCE:

SOURCE: Journal of Vacuum Science & Technology, A: Vacuum,

Surfaces, and Films (1995), 13(5), 2619-23

CODEN: JVTAD6; ISSN: 0734-2101 American Institute of Physics

PUBLISHER: DOCUMENT TYPE: Journal

LANGUAGE: English

A study was conducted regarding the adsorption of peptides on com. pure Ti and Ti-6Al-4V. The peptides used were arginine-glycine-aspartic acid-alanine (RGDA), arginine-glycine-aspartic acid-serine (RGDS), and arginine-phenylalanine-aspartic acid-serine (RFDS). The tripeptide RGD is known to be important for biol. specific adhesion reactions. This research was conducted to investigate the reason for a tendency toward thrombus formation with Ti-6Al-4V that is not observed with cp Ti. After argon plasma cleaning, coupons of the titanium alloys were inserted into solns. with variable concns. (0.0625-2 mg/mL) of an individual peptide group under constant temperature and time conditions. samples were rinsed, dried, and analyzed with XPS. Adsorption isotherms were obtained by plotting the relative amount of peptide adhesion as a function of solution concentration It was postulated through the XPS and adsorption

isotherm data that the major adhesion mechanism for the peptides to the titanium alloys was hydrogen bonding. Titanium and Ti-6Al-4V are hypothesized to react differently as implants because Ti-6Al-4V has a more electropos. surface, which allows fewer hydrogen bonds to form. Hydrophilic reactions were proposed to be of secondary importance during bioadhesion, influencing the structure of the second layer adsorbed. There was no correlation found between the net charge of the peptide groups and their adhesion to the alloys.

IT 102567-19-1

RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(bioreactivity of titanium implant alloys)

RN 102567-19-1 CAPLUS

CN L-Serine, L-arginyl-L-phenylalanyl-L-α-aspartyl- (9CI) (CA INDEX NAME.)

L5 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:206686 CAPLUS

DOCUMENT NUMBER: 122:74922

TITLE: Stabilization of a type VI turn in a family of linear

peptides in water solution

AUTHOR(S): Yao, Jian; Feher, Victoria A.; Espejo, Fabiola;

Reymond, Martine T.; Wright, Peter E.; Dyson, H. Jane

CORPORATE SOURCE: Department of Molecular Biology, The Scripps Research

Institute, La Jolla, CA, 92037, USA

SOURCE: Journal of Molecular Biology (1994), 243(4),

736-53

CODEN: JMOBAK; ISSN: 0022-2836

PUBLISHER: Academic DOCUMENT TYPE: Journal LANGUAGE: English

The sources of the stability of a type VI turn formed with high population AB in the cis isomeric form of an unblocked six residue peptide, Ser1-Tyr2-Pro3-Tyr4-Val6 (SYPYDV), were investigated by making extensive amino acid substitutions at residues 2, 4 and 5. Several NMR parameters indicate the presence of the turn, including significant upfield shifts of the proton resonances of the cis proline, a small $3JHN\alpha$ coupling constant for residue 2, a cross-turn $d\alpha N(i,i+2)$ NOE from residue 2 to residue 4 and an increased mole fraction of the cis form in the conformational ensemble. By these criteria, a number of peptides were found to contain significant populations of type VI turn conformers in the cis form of the peptide. The NMR parameters are highly dependent on the sequence of the peptide, and are strongly correlated with each other and with the population of type VI turn. The greatest populations of turn conformations were observed for peptides of the general form AA-Ar-Pro-Ar-Hp, where AA represents any amino acid, Ar an aromatic residue and Hp a small hydrophilic residue. There is no evidence in the form of lowered amide proton temperature coeffs. for direct hydrogen bonding as a primary source of turn stability. Instead, the major stabilizing factor, indicated by the strong dependence of the turn population on the presence of aromatic (not hydrophobic) residues at positions 2 and 4, is the stacking of the aromatic and proline rings. A measurable preference for deprotonated aspartate at position 5, which is not part of the turn itself, and the destabilization of the turn at high and low pH, indicate that electrostatic interactions between the unblocked N terminus and the aspartate carboxyl group also act to stabilize the turn conformation when the Ar-Pro-Ar sequence is present. Implications for stabilization of local elements of secondary structure during the earliest events in protein folding are discussed. IT

115627-78-6 160253-22-5 160387-13-3 160387-14-4 160387-15-5 160387-16-6 160387-17-7 160387-18-8 160387-19-9

Absolute stereochemistry.

RN 160253-22-5 CAPLUS CN L-Valine, L-seryl-L-tyrosyl-L-prolyl-L-phenylalanyl-L- α -aspartyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 160387-13-3 CAPLUS CN L-Valine, N-[N-[N-[1-(N-L-seryl-L-alanyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

RN 160387-14-4 CAPLUS CN L-Valine, N-[N-[N-[1-(N-L-seryl-L-cysteinyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 160387-15-5 CAPLUS CN L-Valine, N-[N-[N-[1-(N-L-seryl-L- α -aspartyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

RN 160387-16-6 CAPLUS CN L-Valine, N-[N-[N-[1-(N-L-seryl-L- α -glutamyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 160387-17-7 CAPLUS CN L-Valine, N-[N-[N-[1-(N-L-seryl-L-phenylalanyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

RN 160387-18-8 CAPLUS

CN L-Valine, N-[N-[N-[1-(N-L-seryl-L-histidyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 160387-19-9 CAPLUS

CN L-Valine, N-[N-[N-[1-(N-L-seryl-L-isoleucyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

RN 160387-20-2 CAPLUS CN L-Valine, N-[N-[N-[1-(N2-L-seryl-L-lysyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 160387-21-3 CAPLUS
CN L-Valine, N-[N-[N-[1-(N-L-seryl-L-leucyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

RN 160387-22-4 CAPLUS CN L-Valine, N-[N-[N-[1-(N-L-seryl-L-methionyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 160387-23-5 CAPLUS
CN L-Valine, N-[N-[N-[1-(N2-L-seryl-L-asparaginyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

RN 160387-24-6 CAPLUS

CN L-Valine, N-[N-[N-[1-(N2-L-seryl-L-glutaminyl)-L-prolyl]-L-tyrosyl]-L-α-aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 160387-25-7 CAPLUS

CN L-Valine, N-[N-[N-[1-(N2-L-seryl-L-arginyl)-L-prolyl]-L-tyrosyl]-L-α-aspartyl]- (9CI) (CA INDEX NAME)

PAGE 2-A

RN 160387-26-8 CAPLUS
CN L-Valine, N-[N-[N-[1-(N-L-seryl-L-seryl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

RN 160387-27-9 CAPLUS

CN L-Valine, N-[N-[N-[1-(N-L-seryl-L-threonyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 160387-28-0 CAPLUS CN L-Valine, N-[N-[N-[1-(N-L-seryl-L-valyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 160387-29-1 CAPLUS

CN L-Valine, N-[N-[N-[1-(N-L-seryl-L-tryptophyl)-L-prolyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

ANSWER 10 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:46693 CAPLUS

DOCUMENT NUMBER: 122:2582

A minimal transcription activation domain consisting TITLE:

of a specific array of aspartic acid and

leucine residues

AUTHOR(S): Seipel, Katja; Georgiev, Oleg; Schaffner, Walter CORPORATE SOURCE:

Inst. Molekularbiol. II, Univ. Zurich, Zurich,

CH-8057, Switz.

SOURCE: Biological Chemistry Hoppe-Seyler (1994),

375(7), 463-70

CODEN: BCHSEI; ISSN: 0177-3593

DOCUMENT TYPE: Journal LANGUAGE: English

AΒ Transcriptional activation by the herpesvirus protein VP16 (= Vmw65, αTIF) is mediated by its C-terminal acidic activation domain. Using GAL4 fusion proteins, the authors have previously shown that a construct containing two tandem copies of a short eleven amino acid fragment derived from the VP16 domain (DALDDFDLDML, residues 437-447) activates transcription in mammalian cells with an efficiency comparable to a GAL4 fusion with the full VP16 activation domain (residues 413-490). Here the authors mutagenized this eleven amino acid core sequence and find that a mutant sequence with little inherent activity can cooperate with a wildtype sequence to yield almost full activity. Moreover, greater activity is observed when the wildtype sequence is positioned at the distal, rather than the proximal, end of the fusion protein, indicating that the distal position facilitates contacts to the transcription apparatus The authors have also further reduced the eleven amino acid activating sequence to shorter sequence motifs. Two copies of eight and seven amino acids (DALDDFDL and DDFDLDL, resp.), or four copies of the sequences motif DDFDL are required to reach the activation potential of two eleven amino acid motifs. Four copies of the sequence DDLDL still activate transcription strongly (up to two-thirds of DDFDL), indicating that an aromatic residue is not an essential feature of this type of activation domain. However, repetitions of DDL or DL do not yield activity. Thus the minimal requirement for transcriptional activation is the presence of a sequence of some fifteen to twenty amino acids consisting of a specific array of aspartic acid and leucine residues. The motif DDLDL could be a prototypic activation module of the acidic/hydrophobic class of

activation domains.

IT 159361-13-4 159361-16-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (amino acid sequence; arrays of aspartic acid and leucine

residues in minimal transcription activation domain of protein VP16)

RN 159361-13-4 CAPLUS

CN L-Leucine, L- α -aspartyl-L-alanyl-L-leucyl-L- α -aspartyl-L- α -aspartyl-L-phenylalanyl-L- α -aspartyl-L-leucyl-L- α -aspartyl-L-alanyl-L-leucyl-L- α -aspartyl-L- α -aspartyl-L-phenylalanyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

RN 159361-16-7 CAPLUS

CN L-Leucine, L- α -aspartyl-L- α -aspartyl-L-phenylalanyl-L- α -aspartyl-L-leucyl-L- α -aspartyl-L- α -aspartyl-L-phenylalanyl-L- α -aspartyl-L-leucyl-L- α -aspartyl-L- α -aspartyl-L-phenylalanyl-L- α -aspartyl-L- α -aspartyl-L- α -aspartyl-L- α -aspartyl-L-phenylalanyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

PAGE 1-B

PAGE 1-C

L5 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:528519 CAPLUS

DOCUMENT NUMBER:

121:128519

TITLE:

Extracellular Aspartic Proteinases from

Candida albicans, Candida tropicalis, and Candida parapsilosis Yeasts Differ Substantially in Their

Specificities

AUTHOR(S):

Fusek, Martin; Smith, Elizabeth A.; Monod, Michael;

Dunn, Ben M.; Foundling, Stephen I.

CORPORATE SOURCE: Laboratory of Protein Crystallography, Oklahoma

Medical Research Foundation, Oklahoma City, OK, 73104,

USA

SOURCE: Biochemistry (1994), 33(32), 9791-9

CODEN: BICHAW; ISSN: 0006-2960

DOCUMENT TYPE: Journal LANGUAGE: English

Extracellular aspartic proteinases have been implicated for some AB time as virulence factors associated with Candida opportunistic fungal infections. Present knowledge of the enzymic properties of these proteinases is rather limited. Information on their substrate specificity is important for understanding their roles in invasive Candida infections. The authors have isolated aspartic proteinases from each of the three Candida yeasts, Candida albicans, Candida tropicalis, and Candida parapsilosis, and investigated the specificities of these proteinases using a library of synthetic substrates and testing inhibition by pepstatin A. The specificities of these aspartic proteinases are different from those of major human proteinases, including gastric pepsins, renal renin, and cathepsin D. For the peptide substrate, Lys-Pro-Ala-Leu-Phe*Phe(p-NO2)-Arg-Leu, the values of kcat/Km were 2.95 + 106 M-ls-1 for cleavage by Candida albicans proteinase, 1.60 + 106 M-1s-1 for cleavage by Candida tropicalis proteinase, and 0.59 + 106 M-1 s-1 for Candida parapsilosis proteinase. Substantial differences in specificity among the Candida yeast proteinases were identified. For example, Candida tropicalis shows large changes in the kcat/Km value depending on the acidobasic character of the residue occupying the P2 position (1.6 + 106 M-1s-1for Leu, 0.47 + 106M-1s-1 for Lys, and 0.05 + 106 M-1s-1 for Asp at P2, resp.). Candida parapsilosis by comparison is tolerant of these substitutions at P2 and is highly restrictive at position P4. The comparison of sequences of these proteinases, taken together with the kinetic data, suggests the participation of as yet unidentified residues of aspartic proteinases in forming the specificity binding pockets.

IT 157079-15-7

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with **aspartic** proteinases of Candida albicans and C. tropicalis and C. parapsilosis, kinetics of)

RN 157079-15-7 CAPLUS

CN L-Leucine, N-[N-[N-[N-[N-[N-(1-L-lysyl-L-prolyl)-L-alanyl]-L-arginyl]-L-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

$$H_2N$$
 $(CH_2)_4$
 S
 N
 S

L5 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:289639 CAPLUS

DOCUMENT NUMBER: 120:289639

TITLE: Arg-Gly-Asp-Ser peptide analogs suppress cartilage

chondrolytic activities of integrin-binding and

nonbinding fibronectin fragments

AUTHOR(S): Homandberg, Gene A.; Hui, Francis

CORPORATE SOURCE: Rush Med. Coll., Ruch-Presbyterian-St. Luke's Med.

Cent., Chicago, IL, 60612-3864, USA

SOURCE: Archives of Biochemistry and Biophysics (1994

), 310(1), 40-8

CODEN: ABBIA4; ISSN: 0003-9861

DOCUMENT TYPE: Journal LANGUAGE: English

The authors have reported that Fn fragments (Fn-f), which have been AB detected in synovial fluids of osteoarthritis and rheumatoid arthritis patients, can potently cause cartilage chondrolysis and depress proteoglycan (PG) synthesis in cartilage tissue cultured as explants. Amino-terminal 29-kDa, gelatin-binding 50-kDa, and integrin-binding 140-kDa Fn-f are active. In order to investigate the mode of action and devise means of blocking the damage mediated by all Fn-f, the authors have tested the effects of various analogs resembling the integrin binding sequence, Arg-Gly-Asp-Ser, on blocking Fn-f-mediated chondrolysis. The analog peptides, Gly-Arg-Ala-Asp-Ser-Pro-Lys and Arg-Phe-Asp-Ser, at concns. as low as 1 μM , blocked the effects of all three Fn-f on cartilage degradation, while the native sequence peptide, Arg-Gly-Asp-Ser, had very low Fn-f-blocking activity and by itself caused cartilage damage. Random sequence peptides dissimilar to the analog sequences were inactive as inhibitors as well as was a sequence analog, Phe-Asp-Arg-Ser, related to the Arg-Phe-Asp-Ser inhibitor. The analog inhibitory peptides decreased rates of Fn-f-mediated PG degradation and release from cartilage and decreased Fn-f-mediated PG synthesis depression. The analog inhibitory peptides alone had no detectable effect on cartilage PG degradation or PG synthesis rates. These data show that the chondrolytic activities of integrin-binding and nonbinding Fn-f can be blocked by synthetic peptide analogs of the Arg-Gly-Asp-Ser sequence and suggest that these peptides may be useful for blocking other activities of Fn-f.

IT **102567-19-1**, RFDS

RL: BIOL (Biological study)

(fibronectin fragment-induced chondrolysis response to, rheumatoid arthritis in relation to)

RN 102567-19-1 CAPLUS L-Serine, L-arginyl-L-phenylalanyl-L- α -aspartyl- (9CI) (CA INDEX CN

Absolute stereochemistry.

ANSWER 13 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

1993:671680 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 119:271680

TITLE: Investigation of the structural parameters involved in

the δ -opioid selectivity of several families of

opioid peptides

Guis, Christine; Bruetschy, Luce; Meudal, Herve; AUTHOR(S):

Roques, Bernard P.; Gacel, Gilles A.

Dep. Mol. Struct. Pharmacochem., Rene Descartes Univ., CORPORATE SOURCE:

Paris, Fr.

SOURCE: International Journal of Peptide & Protein Research (

1993), 41(6), 576-75

CODEN: IJPPC3; ISSN: 0367-8377

DOCUMENT TYPE: Journal LANGUAGE: English

IT

For diagram(s), see printed CA Issue.

AB Three series of highly δ -opioid selective peptides are now available, and each family is used as template to investigate te structural parameters involved in δ -receptor recognition and in the modulation of the selectivity of the parent peptide. The first series includes cyclic peptides such as I (Pen = penicillamine) and II; the second are synthetic linear constrained peptides Tyr-D-Ser(OtBu)-Gly-Phe-Leu-Thr (DSTBULET), Tyr-D-Ser(OtBu)-Gly-Phe-Leu-Thr(OtBu) (BUBU) and especially Tyr-D-Cys(StBu)-Gly-Phe-Leu-Thr(OtBu) (BUBUC); and the last one natural peptides Tyr-D-Met-Phe-His-Leu-Met-Asp-NH2 (deltorphin or dermenkephalin) and Tyr-D-Ala-Phe-Asp-Val-Val-GlyNH2 ([D-Ala2] deltorphin I)]. In the present study, the possibility of transposing some of the decisive factors of δ -selectivity evidenced in the two other families, to the linear constrained peptides series was examined With this aim in view, residues such as Phe3, pClPhe4 or Asp were introduced in the sequence of DSTBULET, BUBU or BUBUC. Direct comparison between the biochem. profiles of the [pClPhe4] analogs of the linear constrained peptides and their parent compds. shows that the addition of an electroneg. atom on the Phe4 residue of enkephalin sequences is not an absolute parameter for δ -selectivity improvement. The hydrophobic δ -receptor subsite seems able to receive a range of mol. vols. and electronegativities. By contrast, this subsite cannot interact with a Phe3 aromatic ring introduced in this series of peptides. Moreover, the results obtained with linear peptides including addnl. neg. charged residues demonstrate that the proposed location of the δ -receptors in a cationic membrane environment is not adequate to explain the selectivity profile of a number of compds.

151371-27-6P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and δ -opioid selectivity of)

RN 151371-27-6 CAPLUS

CN L-Threonine, N-[N-[N-[N-[O-(1,1-dimethylethyl)-N-L-tyrosyl-D-seryl]glycyl]-L-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

OBU-T

OBU-T

NH2

OBU-T

NH2

OBU-T

NH2

OBU-T

OBU-T

OBU-T

NH
S

OBU-T

PAGE 1-B

__ Me

AUTHOR(S):

L5 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:551631 CAPLUS

DOCUMENT NUMBER: 119:151631

TITLE: Inhibition of smooth muscle contraction and platelet

aggregation by peptide 204-212 of lipocortin 5: An

attempt to define some structure requirements Mugridge, K. G.; Becherucci, C.; Parente, L.;

Perretti, M.

CORPORATE SOURCE: Inst. Ric. Immunobiol. Siena, Siena, 53100, Italy

SOURCE: Mediators of Inflammation (1993), 2(2),

103-7

CODEN: MNFLEF; ISSN: 0962-9351

DOCUMENT TYPE: Journal LANGUAGE: English

AB Peptide 204-212 of lipocortin (LC) 5 inhibited porcine pancreatic phospholipase A2 (PLA2) induced rat stomach strip contractions and

ADP-induced rabbit platelet aggregation in a concentration-dependent manner (IC30

of 10 μ M and 400 μ M, resp.). The first 2 amino acids are not necessary since the heptapeptide 206-212 was equipotent in both assays (IC30 of 12.5 μ M and 420 μ M). Of the 2 pentapeptides 204-208 and 208-212 only the latter showed inhibitory activity in both models although the potency was much reduced (IC30 of 170 μ M and 630 μ M) compared with that of the parent nonapeptide. Comparison of peptide 204-212 effects with those of its analogs on LC1 and LC2 indicate that lysine 208 and aspartic acid 211 are essential in order to maintain a fully

active nonapeptide.

IT 137052-79-0 149997-83-1 149997-84-2

149997-87-5

RL: BIOL (Biological study)

(muscle contraction and platelet aggregation inhibition by, structure in relation to)

RN 137052-79-0 CAPLUS

CN L-Lysine, L-seryl-L-histidyl-L-leucyl-L-arginyl-L-lysyl-L-valyl-L-phenylalanyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

RN 149997-83-1 CAPLUS

CN L-Lysine, N2-[N-[N-[N-[N2-(N2-L-leucyl-L-arginyl)-L-lysyl]-L-valyl]-L-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

$$H_2N$$
 S $Bu-i$
 H_2N S $Bu-i$
 H_2N S H_1N H_2N S H_2N S

Absolute stereochemistry.

RN 149997-87-5 CAPLUS CN L-Arginine, N2-[N-[N-[N-[N2-[N2-[N-(N-L-prolyl-L-histidyl)-L-leucyl]-L-glutaminyl]-L-lysyl]-L-valyl]-L-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

PAGE 2-A

L5 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:496193 CAPLUS

DOCUMENT NUMBER: 119:96193

TITLE: Preparation of endothelin-binding peptides as drugs

and diagnostic agents and for preparation of

biosubstance

INVENTOR(S): Hayashi, Takashi; Watanabe, Hiroo; Izutsu, Hiroshi;

Odakawa, Yasuhisa; Baba, Kenzo

PATENT ASSIGNEE(S): Hitachi Chemical Co Ltd, Japan SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05070487	A2	19930323	JP 1991-232994	19910912 <
PRIORITY APPLN. INFO.:			JP 1991-232994	19910912

AB An endothelin-binding peptide, selected from peptides containing at least continuous 4-amino acid sequences specified in Lys-Thr-Val-Tyr-Asp-Glu and

Glu-Asp-Tyr-Val-Thr-Lys, is used as a drug and a diagnostic agent and for preparation of a biosubstance. One or both of the N and C termini of the peptide is/are optionally blocked or protected. The peptide is a fragment of endothelin receptor protein, shows specific reactivity and binding capability to endothelin, and is useful as an endothelin inhibitor, clin. diagnostic agent, for modifying the physiol. activity of endothelin, and for determination of endothelin. Thus, H-Lys-Thr-Val-Tyr-Asp-Glu-OH was prepared by

9-fluorenylmethoxycarbonyl (Fmoc)-polyamide solid-phase synthesis on a Fmoc-Glu(OCMe3)-bound Pep Syn KA resin (MilliGen Corp.) using a peptide synthesizer Model 9050 (MilliGen Corp.) and Fmoc-protected amino acid dihydroxybenzotriazine or pentafluorophenyl esters. Also prepared was Ac-Lys-Thr-Val-Tyr-Asp-Glu- β -Ala-bound hexamethylenediamine resin for studying human endothelin 1 binding.

IT 149302-85-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as endothelin inhibitor and diagnostic agent and for endothelin determination)

RN 149302-85-2 CAPLUS

CN L-Glutamic acid, N-[N-[N-(N-L-lysyl-L-threonyl)-L-valyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

HO2C
$$\stackrel{S}{\longrightarrow}$$
 CO2H $\stackrel{CO2H}{\longrightarrow}$ O $\stackrel{OH}{\longrightarrow}$ $\stackrel{N}{\longrightarrow}$ $\stackrel{N}{\longrightarrow}$ $\stackrel{O}{\longrightarrow}$ $\stackrel{N}{\longrightarrow}$ $\stackrel{N}{\longrightarrow}$

L5 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:441319 CAPLUS

DOCUMENT NUMBER: 119:41319

TITLE: Inhibitory effects of the neurotensin8-13 analogs

Asp13-NT8-13 and Asp12-NT8-13 on mast cell secretion

AUTHOR(S): Miller, L. A.; Cochrane, D. E.; Carraway, R. E.;

Feldberg, R. S.

CORPORATE SOURCE: Tufts Univ., Medford, MA, 02155, USA

SOURCE: Agents and Actions (1993), 38(1-2), 1-7

CODEN: AGACBH; ISSN: 0065-4299

DOCUMENT TYPE: Journal LANGUAGE: English

AB Pretreatment of isolated mast cells with analogs of neurotensin 8-13 (NT8-13), in which the amino acids Leu13 or Ile12 are replaced with an aspartic acid (Asp13-NT8-13 or Asp12-NT8-13), inhibited the secretion of histamine in response to neurotensin (NT). A 10-min

pretreatment with either analog (10 µM) inhibited NT-induced histamine release by 90% (Asp13-NT8-13) or by 98% (Asp12-NT8-13). At concns. that are inhibitory, Asp13-NT8-13 and Asp12-NT8-13 alone elicited very little release (<5% at 10 μ M). In the continued presence of the analogs, the inhibitory effect lasted for >45 min; removal of the analogs resulted in restoration of sensitivity to NT within 10 min. Pretreatment with analog Asp13-NT8-13 resulted in a 39% inhibition of stimulation by substance P and a 52% inhibition of stimulation by histamine-releasing peptide (HRP). In contrast, pretreatment with analog Asp12-NT8-13 gave no inhibition of release by SP or HRP. Neither analog inhibited histamine release in response to bradykinin, NT1-12, compound 48/80, the calcium ionophore A 23187, or anti-IgE stimulation of passively sensitized mast cells. Although Asp12-NT8-13 and Asp13-NT8-13 differed slightly in regard to the peptides they inhibit, both probably act at a step early in the stimulus-secretion coupling sequence; most likely before the rise in the level of free intracellular Ca that has been shown to accompany secretion in mast cells. These analogs probably exert their inhibitory effect on NT by competing with NT for a binding site on the mast cell membrane. The limited number of peptides inhibited by these analogs suggest that not all basic peptides act at the same site to stimulate secretion.

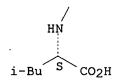
IT 148716-88-5

RL: BIOL (Biological study)

(histamine secretion by mast cells inhibition by)

RN 148716-88-5 CAPLUS

CN Kinetensin (human), 1-de-L-isoleucine-2-de-L-alanine-5-de-L-histidine-8-Laspartic acid- (9CI) (CA INDEX NAME)



ANSWER 17 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1993:162825 CAPLUS

DOCUMENT NUMBER:

118:162825

TITLE:

Characterization of heptapeptide toxins extracted from

Microcystis aeruginosa (Egyptian isolate). Comparison

with some synthesized analogs

AUTHOR(S):

Abdel-Rahman, S.; El-Ayouty, Y. M.; Kamael, H. A.

CORPORATE SOURCE:

Fac. Sci., Zagazig Univ., Egypt

SOURCE:

International Journal of Peptide & Protein Research (

1993), 41(1), 1-7

CODEN: IJPPC3; ISSN: 0367-8377

DOCUMENT TYPE:

Journal

LANGUAGE: English

Four toxic peptides from local fresh water cyanobacterium M. aeruginosa were purified and identified by HPLC and ion-spray mass spectroscopic studies as: RR; YR; LR and LA with mol. wts. of 1006.8, 1073, 984.8 and 910.6, resp. Amino acid anal. indicated the presence of equimolar amts. of aspartic acid, glutamic acid, arginine, leucine and tyrosine, in addition to both alanine and dehydroalanine. Mouse assay toxicity indicated that the first two peptides, at the peak area of RR, YR, were highly toxic with LD50s of 20 and 18.2 µg/kg; however, the latter two, at the peak areas LR and LA, have a lesser toxicity with LD50s of 36 and 40 µg/kg, resp. Three linear peptide analogs to those naturally found devoid of Adda were synthesized using the continuous flow technique. HPLC pure synthesized analog products were tested for toxicity using male mice (i.p. injection). None of them induced toxic activity.

TΤ 146788-24-1P

> RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and toxicity of)

RN 146788-24-1 CAPLUS

CN L-Methionine, $N-[N-[N-(N-D-\alpha-qlutamyl-L-alanyl)-D-alanyl]-L$ tyrosyl]-D- α -aspartyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1993:161057 CAPLUS

DOCUMENT NUMBER:

118:161057

TITLE:

L-phenylalanyl-L-aspartyl-L-lysine as

angiotensin I-converting enzyme inhibitor for

therapeutic use

INVENTOR(S):

Yuasa, Yojiro; Somoto, Akishige

PATENT ASSIGNEE(S):

Calpis Food Industry Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 5 pp. CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04282398 JP 3149199	A2 B2	19921007 20010326	JP 1991-46430	19910312 <

PRIORITY APPLN. INFO.:

JP 1991-46430

19910312

AB The title tripeptide (I), as angiotensin I-converting enzyme inhibitor, is prepared Thus, CaCl2 was added to an. aqueous solution of 100 g cheese whey powder

(pH 8.0), the solution was treated with trypsin at 37° for 24 h, the digested solution was treated with HCl and centrifuged, and the supernatant was further treated with EtOH to precipitate The supernatant was concentrated, diluted

with H2O, purified on Sephadex LH-20 and Sephadex G-10, and subjected to HPLC to give I. Spontaneously hypertensive rats were force-fed with a I-containing diet at 100 mg/kg I. Maximum blood pressure 6 h after the feeding was 205.1 mmHg, vs. 227 mmHg for untreated controls.

IT 90236-06-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as angiotensin I-converting enzyme inhibitor)

RN 90236-06-9 CAPLUS

CN L-Lysine, L-phenylalanyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

L5 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1993:125076 CAPLUS

DOCUMENT NUMBER:

118:125076

TITLE:

Preparation of peptide derivatives and their

application as antitumor agents

INVENTOR(S):

Kitaguchi, Hiroshi; Komazawa, Hiroyuki; Kojima, Masayoshi; Mori, Hideto; Nishikawa, Naoyuki; Satoh, Hideaki; Orikasa, Atsushi; Ono, Mitsunori; Azuma,

Ichiro; Saiki, Ikuo

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Japan

SOURCE:

Eur. Pat. Appl., 69 pp.

CODEN: EPXXDW

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
EP 503301	A2	19920916	EP 1992-102442		19920213	<
EP 503301	A3	19930616				
EP 503301	B1	19971126				
R: DE, GB						
JP 05186499	A2	19930727	JP 1992-22799		19920207	<
JP 2745351	В2	19980428				
EP 619118	A1	19941012	EP 1994-101494		19920213	<
EP 619118	B1	19970611				
R: DE, GB						
US 5436221	Α	19950725	US 1992-834848		19920213	<
PRIORITY APPLN. INFO.:			JP 1991-40860	Α	19910214	
			JP 1991-297482	Α	19911113	
			JP 1992-22799	Α	19920207	
			EP 1992-102442	А3	19920213	

OTHER SOURCE(S): MARPAT 118:125076

AB Fibronectin cell adhesion peptide fragments H-Z-D- or -L-Arg-X-Asp-Y-OH (X = L- or D-Leu, D-Ile, L- or D-Nle, L- or D-Phe, D-phenylglycine, D-Ala; Z, Y = independently bond, amino acid residue, or peptide residue, composed of Gly, Ser, Thr, L- or D-Asp, Ala, D-Glu, Pro), derivs., pharmaceutically acceptable salts, and pharmaceutical compns. comprising them were prepared as agents for inhibiting tumor metastasis.

IT 145881-92-1 145881-93-2

RL: RCT (Reactant); RACT (Reactant or reagent)
 (amidation of, with chitin derivs.)

RN 145881-92-1 CAPLUS

CN L-Serine, glycyl-L-arginyl-L-phenylalanyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

RN 145881-93-2 CAPLUS

CN L-Serine, N-[N-[N-(N2-L- α -aspartyl-L-arginyl)-D-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 145880-99-5

RL: RCT (Reactant); RACT (Reactant or reagent) (amidation of, with succinylated chondroitin sulfate)

RN 145880-99-5 CAPLUS

CN L-Serine, N-[N-(N-D-arginyl-L-phenylalanyl)-L-α-aspartyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

IT 145880-86-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and amidation of, with succinylated polyallylamine)

RN 145880-86-0 CAPLUS

CN L-Serine, N-[N-[N-[N-[N-[N-[N-[N-(N2-L- α -aspartyl-D-arginyl)-L-phenylalanyl]-L- α -aspartyl]-L-seryl]-L- α -aspartyl]-L-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

PAGE 1-B

ΙT 102567-19-1P 145880-14-4P 145880-29-1P 145880-61-1P 145880-76-8P 145880-85-9DP, ethers with sulfated oligo(acetylglucosamine) 145880-86-0DP, amides with succinylated polyallylamine 145880-99-5DP, amides with succinylated chondroitin sulfate 145881-07-8P 145881-39-6P 145881-40-9P 145985-74-6P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and antitumor activity of) RN102567-19-1 CAPLUS CN L-Serine, L-arginyl-L-phenylalanyl-L-α-aspartyl- (9CI) (CA INDEX NAME)

HO₂C
$$\stackrel{\text{Ph}}{\underset{\text{H}}{\bigvee}}$$
 $\stackrel{\text{O}}{\underset{\text{NH}_2}{\bigvee}}$ $\stackrel{\text{NH}}{\underset{\text{NH}_2}{\bigvee}}$ $\stackrel{\text{NH}}{\underset{\text{NH}_2}{\bigvee}}$

Absolute stereochemistry.

RN 145880-29-1 CAPLUS

CN L-Serine, N-[N-[N-[N2-(3-carboxy-1-oxopropyl)-L-arginyl]-D-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 145880-61-1 CAPLUS

CN L-Serine, N-[N-[N-[N2-[1-oxo-2,3-bis(sulfooxy)propyl]-L-arginyl]-D-phenylalanyl]-L- α -aspartyl]-, disodium salt (9CI) (CA INDEX NAME)

HO₂C
$$\stackrel{\text{Ph}}{\underset{\text{H}}{\bigvee}}$$
 $\stackrel{\text{O}}{\underset{\text{NH}_2}{\bigvee}}$ $\stackrel{\text{NH}}{\underset{\text{NH}_2}{\bigvee}}$ $\stackrel{\text{NH}}{\underset{\text{NH}_2}{\bigvee}}$ $\stackrel{\text{OSO}_3H}{\underset{\text{N}}{\bigvee}}$ $\stackrel{\text{NH}}{\underset{\text{N}}{\bigvee}}$ $\stackrel{\text{OSO}_3H}{\underset{\text{N}}{\bigvee}}$

●2 Na

RN 145880-76-8 CAPLUS
CN L-Serine, N-[N-[N-[N-[N-[5-[[4-[[0-2-(acetylamino)-2-deoxy-6-0-sulfo-\$\beta-D-glucopyranosyl-(1 \rightarrow 4)-0-2-(acetylamino)-2-deoxy-6-0-sulfo-\$\beta-D-glucopyranosyl-(1 \rightarrow 4)-2-(acetylamino)-2-deoxy-6-0-sulfo-\$\beta-D-glucopyranosyl]oxy]phenyl]amino]-1,5-dioxopentyl]glycyl]-L-arginyl]-L-phenylalanyl]-L-\$\alpha\$-aspartyl]-, trisodium salt (9CI) (CA INDEX NAME)

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●3 Na

RN 145880-85-9 CAPLUS

CN L-Serine, N-[N-[N-[N-[N-(hydroxyacetyl)-L- α -aspartyl]-L-arginyl]-D-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 145880-86-0 CAPLUS

CN L-Serine, N-[N-[N-[N-[N-[N-[N-(N2-L- α -aspartyl-D-arginyl)-L-phenylalanyl]-L- α -aspartyl]-L-seryl]-L- α -aspartyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

RN 145880-99-5 CAPLUS CN L-Serine, N-[N-(N-D-arginyl-L-phenylalanyl)-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 145881-07-8 CAPLUS

CN L-Serine, N-[N-[N-[N2-[1-oxo-2,3-bis(sulfooxy)propyl]-L-arginyl]-D-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 145881-39-6 CAPLUS

CN L-Serine, N-[N-(N-L-arginyl-L-phenylalanyl)-L- α -aspartyl]-, monoacetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 102567-19-1 CMF C22 H33 N7 O8

CM 2

CRN 64-19-7 CMF C2 H4 O2

RN 145881-40-9 CAPLUS

CN L-Serine, N-[N-(N-L-arginyl-D-phenylalanyl)-L- α -aspartyl]-, monoacetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 145880-14-4 CMF C22 H33 N7 O8

Absolute stereochemistry.

CM 2

CRN 64-19-7 CMF C2 H4 O2

RN 145985-74-6 CAPLUS

CN L-Serine, N-[N-[N-[N-[N-[5-[[4-[[O-2-(acetylamino)-2-deoxy-6-O-sulfo- β -D-glucopyranosyl-(1 \rightarrow 4)-O-2-(acetylamino)-2-deoxy-6-O-sulfo-

 $\beta-D-glucopyranosyl-(1\rightarrow 4)-2-(acetylamino)-2-deoxy-6-O-sulfo-\\ \beta-D-glucopyranosyl]oxy]phenyl]amino]-1,5-dioxopentyl]glycyl]-L-arginyl]-L-phenylalanyl]-L-<math>\alpha$ -aspartyl]- (9CI) (CA INDEX NAME)

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IT 145880-34-8P 145880-35-9P 145880-37-1P 145880-56-4P 145880-58-6P 145880-84-8DP,

ethers with sulfated oligo(acetylglucosamine)

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of, as antitumor agent)

RN 145880-34-8 CAPLUS

CN L-Serine, N-[N-[N-[N2-(N-acetyl-L- α -aspartyl)-L-arginyl]-L-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 145880-35-9 CAPLUS

CN L-Serine, N-[N-[N-[N2-(N-acetyl-D- α -aspartyl)-L-arginyl]-L-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 145880-37-1 CAPLUS

CN L-Serine, N-[N-[N-[N2-(N-acetyl-L- α -aspartyl)-L-arginyl]-D-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 145880-56-4 CAPLUS

CN L-Serine, N-[N-[N-[N2-[1-oxo-2,3-bis(sulfooxy)propyl]-L-arginyl]-L-phenylalanyl]-L- α -aspartyl]-, disodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

●2 Na

RN 145880-58-6 CAPLUS

CN L-Serine, glycyl-L-arginyl-L-phenylalanyl-L- α -aspartyl-, amide with 2-carboxy-2-[(3-carboxy-1-oxopropoxy)methyl]-1,3-propanediyl bis(hydrogen

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

PAGE 2-A

RN 145880-84-8 CAPLUS

CN L-Serine, N-[N-[N-[N2-[N-(hydroxyacetyl)glycyl]-L-arginyl]-L-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L5 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:443332 CAPLUS

DOCUMENT NUMBER: 117:43332

TITLE: Substrate specificity and kinetic properties of

pepstatin-insensitive carboxyl proteinase from

Pseudomonas sp. Number 101

AUTHOR(S): Oda, Kohei; Nakatani, Hiroshi; Dunn, Ben M.

CORPORATE SOURCE: Fac. Agric., Univ. Osaka Prefect., Sakai, 591, Japan

SOURCE: Biochimica et Biophysica Acta, Protein Structure and

Molecular Enzymology (1992), 1120(2), 208-14

CODEN: BBAEDZ; ISSN: 0167-4838

DOCUMENT TYPE: Journal LANGUAGE: English

AB The substrate specificity of pepstatin-insensitive aspartic proteinase isolated from Pseudomonas sp. Number 101 was studied by using a series of synthetic chromogenic substrates with general structure, P5-P4-P3-P2-P1*(NO2)Phe-Arg-Leu (P5, P4, P3, P2, P1 include a variety of amino acids; (NO2)Phe is p-nitro-L-phenylalanine). The nature of the residues occupying the P2, P3, and P4 positions as well as the P1 position had strong influences on kinetic parameters. Among those tested, Lys-Pro-Ile-Glu-Phe*(NO2)Phe-Arg-Leu was the best substrate (Km = 3 μM; kcat = 6.9 s-1; kcat/Km = 2300 mM-1 s-1). The S2 subsite of the enzyme was found to contain one or more basic amino acids, whereas the S4 subsite probably includes one or more acidic amino acids. The pH-dependence of the hydrolysis of Ser-Pro-Ala-Lys-Phe*(NO2)Phe-Arg-Leu was studied. The pK1 and pK2 values for the enzyme-substrate complex were found to be 2.97

and 4.92, resp. Coupled with other results, it appears likely that 2 active carboxyl residues are involved in the catalytic action of the enzyme. In addition, it was found that a specific peptide inhibitor of the enzyme, tyrostatin, is a competitive inhibitor with a Ki of 2.6 nM.

IT 142234-15-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with pepstatin-insensitive aspartic proteinase
of Pseudomonas, structure in relation to)

RN 142234-15-9 CAPLUS

CN L-Leucine, L-lysyl-L-prolyl-L-alanyl-L-lysyl-L-phenylalanyl-4-nitro-L-phenylalanyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

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L5 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1991:79202 CAPLUS

DOCUMENT NUMBER:

114:79202

TITLE:

Arginine-glycine-aspartic acid- and

fibrinogen γ -chain carboxyterminal peptides

inhibit platelet adherence to arterial subendothelium at high wall shear rates: an effect dissociable from

interference with adhesive protein binding

AUTHOR(S):

Lawrence, Jeffry B.; Kramer, Wendy S.; McKeown, Laurie

P.; Williams, Sybil B.; Gralnick, Harvey R.

CORPORATE SOURCE:

Clin. Cent., Natl. Inst. Health, Bethesda, MD, 20892,

USA

Journal of Clinical Investigation (1990), SOURCE:

86(5), 1715-22

CODEN: JCINAO; ISSN: 0021-9738

DOCUMENT TYPE: Journal English LANGUAGE:

AB Arg-Gly-Asp (RGD) - and fibrinogen γ -chain C-terminal (GQQHHLGGAKQAGDV) peptides inhibit fibrinogen, fibronectin (Fn), vitronectin, and von Willebrand factor (vWF) binding to the platelet glycoprotein IIb-IIIa complex (GP IIb-IIIa). GP IIb-IIIa, vWF, and Fn are essential for normal platelet adherence to subendothelium. Peptides were added to normal citrated whole blood before perfusion over human umbilical artery subendothelium and platelet adherence was evaluated morphometrically at high (2600 s-1) and low (800 s-1) wall shear rates. The effects of the peptides also were examined on platelet adhesion to collagen in a static system. At the high wall shear rate, RGDS and GQQHHLGGAKQAGDV caused dose-dependent reduction in the surface coverage with spread and adherent platelets. Amino acid transposition and conservative

substitutions of RGD peptides and the AGDV peptide significantly inhibited platelet adherence at 2600 s-1. By contrast, the modified RGD peptides and AGDV do not affect adhesive protein binding to platelets. None of the native or modified RGD- or fibrinogen γ-chain peptides significantly inhibited either platelet adherence to subendothelium at 800 s-1 or platelet adhesion to collagen. Thus, peptides that interfere with adhesive protein binding to GP IIa-IIIa inhibit platelet adherence to vascular subendothelium with flowing blood only at high wall shear rates. Platelet adherence to subendothelium at high wall shear rates appears to be mediated by different recognition specificities from those required for fluid-phase adhesive protein binding or static platelet adhesion.

IT 102567-19-1

RL: BIOL (Biological study)

(blood platelet adherence to artery subendothelium of human response to, structure in relation to)

102567-19-1 CAPLUS RN

CN L-Serine, L-arginyl-L-phenylalanyl-L- α -aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 22 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1990:151873 CAPLUS

DOCUMENT NUMBER: 112:151873

TITLE:

Hypoglycemic peptides containing β -imido-L-

aspartyl-L-asparagine

INVENTOR(S): Hearn, Milton Thomas William; Ng, Frank Man Woon;

Robson, Victoria Marie Jane; O'Donoghue, Michael

Francis; Rae, Ian David

PATENT ASSIGNEE(S): Monash University, Australia; Australasian Drug

Development Ltd.

SOURCE: PCT Int. Appl., 40 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

P.	ATENT NO.			KINI	D DATE	APPLICATION NO.		DATE	
WC	8904323			A1	19890518	WO 1988-AU421		19881027	<
	W: AU,	JP,	US						
	RW: AT,	BE,	CH,	DE,	FR, GB, IT,	LU, NL, SE			
JΑ	J 8826010			A1	19890601	AU 1988-26010		19881027	<
JA	J 615968			B2	19911017				
EI	386044			A 1	19900912	EP 1988-909274		19881027	<
E	386044			В1	19970108				
	R: AT,	BE,	CH,	DE,	FR, GB, IT,	LI, LU, NL, SE			
A'	147268			E	19970115	AT 1988-909274		19881027	<
CA	A 1341270			A1	20010710	CA 1988-581850		19881101	
US	6048840			Α	20000411	US 1994-221461		19940401	
PRIORIT	Y APPLN.	INFO.	. :			AU 1987-5195	Α	19871102	
						WO 1988-AU421	Α	19881027	
						US 1990-477975	В2	19900517	
						US 1992-873687	В1	19920424	

GI

AB Hypoglycemic peptides I [X = H, CH2CONH2, (CH2)2CONH2; R1-R3 = L- α -amino acid, δ -amino acid, ϵ -amino acid; R4 = L or D α -amino acid, δ -amino acid, ϵ -amino acid; R5-R11 = H, L or D α -amino acid, δ -amino acid, ϵ -amino acid] or pharmaceutically acceptable salts are prepared and used to lower the level of blood glucose. At low or high insulin concns. (102 and 104 microunits/mL), peptide Leu-Ser-Arg-Leu-Phe- β -imido-Asp-Asn-Ala (0.1 μ mol/mL) significantly increased glycogen deposition by rat hemidiaphragms. The α form (human growth hormone 6-13) and the ring-opened (hydrolyzed β -imide) form were both inactive.

Ι

IT 125988-34-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as antidiabetic)

RN 125988-34-3 CAPLUS

CN L-Asparagine, N2-[N-[N-[N-[N2-(N-L-leucyl-L-seryl)-L-arginyl]-L-leucyl]-L-phenylalanyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:2231 CAPLUS

DOCUMENT NUMBER: 106:2231

TITLE: Role of ATP and enzyme-bound nascent peptides in the

control of elongation for mycobacillin synthesis

AUTHOR(S): Ghosh, Subrata Kumar; Majumdar, Sekhar; Mukhopadhyay,

Nishit Kumar; Bose, Sushil Kumar

CORPORATE SOURCE: Dep. Biochem., Univ. Coll. Sci., Calcutta, 700019,

India

SOURCE: Biochemical Journal (1986), 240(1), 265-8

CODEN: BIJOAK; ISSN: 0306-3275

DOCUMENT TYPE: Journal LANGUAGE: English

Enzyme fraction A, a constituent of the 3-fraction (A, B, and C) enzyme AB complex mycobacillin synthetase of Bacillus subtilis, elongated tri- and tetrapeptides, under enzyme-bound conditions, to tetra- and pentapeptides, resp., in the presence of the next amino acid (in the mycobacillin sequence). Enzyme fraction B synthesized hexapeptide from free pentapeptide and the next amino acid, but synthesized heptapeptide from hexapeptide only under enzyme-bound conditions in the presence of the next amino acid. Similarly, enzyme fraction C synthesized decapeptide from free nonapeptide in the presence of the next amino acid, but undecapeptide only from enzyme-bound decapeptide in the presence of the next amino acid during the elongation process. The Km values for the initiating reactions for each of the 3 enzyme fractions were 6-7-fold lower than those for the succeeding reactions catalyzed by each of the enzyme fractions. The specificity of the initiation and elongation is discussed in the light of these findings.

IT 105633-90-7

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with mycobacillin synthetase of Bacillus subtilis)

RN 105633-90-7 CAPLUS

CN L-Tyrosine, N-[N-[N-(N-L-prolyl-D- α -aspartyl)-D- α -glutamyl]-L-tyrosyl]-L- α -aspartyl]- (9CI) (CA INDEX NAME)

PAGE 1-B

L5 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:210400 CAPLUS

DOCUMENT NUMBER: 100:210400

TITLE: Synthesis of six common amino acid sequence fragments

of thymosins $\beta4$, $\beta8$ and $\beta9$ and

determination of their effects on the low E-rosette

forming cells of lupus nephritis patients

AUTHOR(S): Abiko, Takashi; Sekino, Hiroshi

CORPORATE SOURCE: Kidney Cent., Sendai Insur. Hosp., Sendai, 980, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1984),

32(1), 228-36

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal LANGUAGE: English

AB Title thymosin fragments H-Lys-Leu-Lys-Lys-Thr-Glu-Thr-Glu-Glu-Lys-Asn-OH (I) (sequence 16-26), H-Lys-Glu-Thr-Ile-Glu-Glu-Lys-Gln-OH (II) (sequence 31-39), H-Asp-Lys-Pro-Asp-OH (sequence 2-5), H-Phe-Asp-Lys-OH (sequence 12-14), H-Leu-Pro-OH (sequence 28-29), and H-Glu-Ile-OH (sequence 8-9) were prepared by conventional solution methods. I and II increased in vitro E-rosette-forming capacity, whereas the other 4 peptides had no effect.

IT 90236-06-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and immune enhancement activity of)

RN 90236-06-9 CAPLUS

CN L-Lysine, L-phenylalanyl-L-α-aspartyl- (9CI) (CA INDEX NAME)

$$H_2N$$
 (CH_2)
 4
 S
 CO_2H
 NH_2
 O
 CO_2H

L5 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1980:440249 CAPLUS

DOCUMENT NUMBER:

93:40249

TITLE:

Inhibitors of procollagen N-protease. Synthetic peptides with sequences similar to the cleavage site

in the $pro\alpha 1$ (I) chain

AUTHOR(S):

Morikawa, Tadanori; Tuderman, Leena; Prockop, Darwin

CORPORATE SOURCE:

Rutgers Med. Sch., Coll. Med. Dent. New Jersey,

Piscataway, NJ, 08854, USA

SOURCE:

Biochemistry (1980), 19(12), 2646-50

CODEN: BICHAW; ISSN: 0006-2960

DOCUMENT TYPE:

Journal

LANGUAGE:

English

A series of peptides was synthesized with amino acid sequences identical with the cleavage site at which the procollagen N-protease cleaves the N-terminal propeptide from the $pro\alpha 1$ chain of type I procollagen. Peptides up to 11 residues in length did not serve as substrates for the enzyme, an observation consistent with the demonstration that the N-protease will not cleave denatured procollagen or dissociated prox chains. Several of the peptides, however, served as effective inhibitors of the cleavage of procollagen. Comparison of the inhibitor activities of peptides of varying lengths suggested that the L-phenylalanine found 3 residues to the left of the cleavage site was important for inhibitor activity. This suggestion was confirmed by synthesis of analogs of inhibitory peptides in which L-phenylalanine was replaced by D-phenylalanine, tyrosine, lysine, aspartic acid, or glycine.

IT 73592-07-1P

> RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 73592-07-1 CAPLUS

CN phenylalanyl]-L-alanyl]-L-prolyl]-L-glutaminyl]-L-leucyl]-L-seryl]-Ltyrosyl]glycyl]-L-tyrosyl]-L-α-aspartyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

IT 73592-03-7

RL: BIOL (Biological study)
(procollagen N-protease inhibition by)

RN 73592-03-7 CAPLUS

CN L-Glutamic acid, glycyl-L-asparaginyl-L-phenylalanyl-L-alanyl-L-prolyl-L-glutaminyl-L-leucyl-L-seryl-L-tyrosylglycyl-L-tyrosyl-L- α -aspartyl-(9CI) (CA INDEX NAME)

L5 ANSWER 26 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1965:448012 CAPLUS

DOCUMENT NUMBER: 63:48012

ORIGINAL REFERENCE NO.: 63:8751f-h,8752a-b

TITLE: Molecular consequences of the amber mutation and its

suppression

AUTHOR(S): Stretton, A. O. W.; Brenner, S. CORPORATE SOURCE: Med. Res. Council, Cambridge, UK

SOURCE: Journal of Molecular Biology (1965), 12(2),

456-65

CODEN: JMOBAK; ISSN: 0022-2836

DOCUMENT TYPE: Journal LANGUAGE: English

AB

The peptides produced by amber mutants of the head protein of bacteriophage T4D in nonpermissive bacteria were studied. The phages T4D and the amber mutant H36 (am H36) were used with Escherichia coli B as the su- strain and E. coli CR63 as the su+ strain containing a suppressor (sul+). Cultures of E. coli were infected with phage, then after 5 min. were superinfected to produce lysis inhibition, and 5 min. later 14C-amino acids were added. Protein was prepared from infected bacteria and phage. Large amts. of phage protein were prepared in a fermentor and purified. Labeled digests were fractionated by paper ionophoresis and the peptides were located by autoradiography. The peptides were fractionated by gel filtration on a Sephadex column, then by ion exchange on Dowex 1+2. Acid hydrolyzates of peptides were analyzed for component amino acids by an automatic analyzer. The amino acid sequences were determined using a variety of methods, including Edman degradation using the fluorescent reagent, 1-dimethylamino-5-naphthalenesulfonyl chloride, enzymic digestions with chymotrypsin, pronase, pepsin, and leucine aminopeptidase, partial acid hydrolysis, and hydrazinolysis. Tryptic digests of protein containing phenylalanine-14 C synthesized by am H36 in the su- strain contained a peptide, PhT 11, not found in the wild-type or in other amber mutants. The structure of PhT 11 and PhT 12, the peptide absent in H36 and present in amber mutants which mapped to the right of H36 on ionophoresis, were determined PhT 12 was a tridecapeptide with structure, Ala-Gly-(Val-Phe)-Asp-Phe-Gln-Asp-Pro-Ile-Asp-Ile-Arg. The structure of PhT 11 was Ala-Gly-Val-Phe-Asp-Phe. When am H36 was grown on E. coli CR63, PhT 11 and PhT 12 were present in equal amts. The Gln was replaced by Ser in PhT 12 from suppressed am H36. The peptide PhT 11 was found in am H36 as the N-terminal fragment of wild-type peptide PhT 12, thus the protein made by H36 must be N-terminal of whole head protein, and amber mutation must result in termination of polypeptide chain synthesis.

CN Alanine, N-[N-[N-[N-(N-alanylglycyl)valyl]-3-phenylalanyl]- α -aspartyl]-3-phenyl- (7CI, 8CI) (CA INDEX NAME)

L5 ANSWER 27 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1963:83289 CAPLUS

DOCUMENT NUMBER: 58:83289

ORIGINAL REFERENCE NO.: 58:14346g-h,14347a

TITLE: Postmortem lability of skeletal muscle proteins

AUTHOR(S): Scopes, R. K.; Lawrie, R. A.

CORPORATE SOURCE: Low Temp. Res. Sta., Cambridge, UK

SOURCE: Nature (London, United Kingdom) (1963), 197,

1202-3

CODEN: NATUAS; ISSN: 0028-0836

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB Beef muscle was obtained at slaughter and chilled to 0° within 1 hr. Samples were held at 0° for 20 hrs., at 37° for 4 hrs.,

or used at once. Homogenates were extracted with distilled water after adjusting

to pH 7.0 with M tris(hydroxymethyl)aminomethone buffer. About 35 bands could be demonstrated on starch-gel electrophoresis. Several components were removed completely or diminished by the fast postmortem glycolysis which occurred at 37°. There were minor differences between fresh material and that which had a slow rate of pH fall (from about 7.3 to 5.5). The major component of pig muscle sarcoplasmic proteins (creatine phosphoryltransferase) which migrates towards the anode at pH 8.5 was markedly affected by the high temperature and low pH combination.

Precipitation of the

pH 5 proteins by lowering the pH of the sarcoplasmic exts., produced a fraction which, on resolution at pH 7.5, corresponded with the components affected by high-temperature treatment. In situ isoelec. precipitation of these

proteins rendered them more susceptible to heat denaturation.

IT 100029-32-1, Arginine, N2-[N-(3-phenylalanyl)- α -aspartyl]-

(preparation of)

RN 100029-32-1 CAPLUS

CN L-Arginine, L-phenylalanyl-L-α-aspartyl- (9CI) (CA INDEX NAME)

L5 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1963:83288 CAPLUS

DOCUMENT NUMBER: 58:83288
ORIGINAL REFERENCE NO.: 58:14346q

TITLE: Today's state of haptoglobin investigations
AUTHOR(S): Mathies, H.; Schattenkirchner, M.; Schleifer, E.

CORPORATE SOURCE: Med. Poliklin., Munich, Germany

SOURCE: Medizinische Klinik (Muenchen, Germany) (1963

), 58, 121-7

CODEN: MEKLA7; ISSN: 0723-5003

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB Review with 85 references. IT 100029-32-1, Arginine, N2-[N-(3-phenylalanyl)- α -

aspartyl]-

(preparation of) RN 100029-32-1 CAPLUS

CN L-Arginine, L-phenylalanyl-L-α-aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L5 ANSWER 29 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1963:83287 CAPLUS

DOCUMENT NUMBER: 58:83287
ORIGINAL REFERENCE NO.: 58:14346f-q

TITLE: Structure of sperm whale myoglobin. III. Amino acid

sequences of the smaller tryptic peptides containing

aromatic residues

AUTHOR(S): Edmundson, A. B.; Hirs, C. H. W. CORPORATE SOURCE: Rockefeller Inst., New York, NY

SOURCE: Journal of Molecular Biology (1962), 5,

706-8

CODEN: JMOBAK; ISSN: 0022-2836

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB Six of the 11 aromatic amino acid residues in the sperm whale I mol. are

present in relatively small peptides that are constituents of the soluble fraction of tryptic hydrolysates of I. Two of these peptides are dipeptides. The amino acid sequences of the remaining 4 peptides (2 tripeptides and 2 hexapeptides) were determined to be: Phe-Asp-Arg, Leu-Phe-Lys, Ala-Leu-Glu-Leu-Phe-Arg, and Glu-Leu-Gly-Tyr-Gly-Glu-(NH2). The last peptide represents the carbonyl terminal sequence of I. $100029-32-1, \text{ Arginine, N2-[N-(3-phenylalanyl)-}\alpha-\frac{100029-32-1}{100029-32-1} \text{ CAPLUS}$ RN 100029-32-1 CAPLUSCN L-Arginine, L-phenylalanyl-L-\$\alpha\$-aspartyl- (9CI) (CA INDEX NAME)